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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-3.(canceled)

4.(currently amended) A magnetic write head, comprising:

on a substrate, a first layer of high magnetic permeability material, having an edge whose surface is normal to said substrate, that serves as a primary lower magnetic pole;

a <u>first</u> non-magnetic layer that abuts, <u>contacts said first layer only at said edge</u> and extends away <u>there</u>from, <u>said non-magnetic layer having a top surface that is coplanar with that of said primary pole on a first side;</u>

a second layer of high magnetic permeability material that serves as a secondary lower pole that fully and covers said primary pole and extending over said non-magnetic layer above which it serves on said first side as a ledge having a width;

a field coil over, and insulated from, said lower poles;

an upper magnetic pole that overlies said field coil, contacts said lower pole at a second side that is opposite to opposes said first side, and that is separated from said ledge by a second layer of non-magnetic material that is a write gap, said upper pole having, at the write gap, a width equal to said ledge width, whereby it defines a track width; and

said ledge extending away from said primary lower pole by an amount.

5.(original) The write head described in claim 4 wherein said first layer of high magnetic permeability material is NiFe, CoNiFe, FeTaN, FeAIN, CoTaN, CoAIN, or CoFeN and has a thickness between about 0.3 and 3 microns.

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6.(original) The write head described in claim 4 wherein said non-magnetic layer is silicon oxide, aluminum oxide, tantalum oxide, Al, Rh, Ru, Cu, NiCu, or Ta.

7.(original) The write head described in claim 4 wherein said second layer of high magnetic permeability material is NiFe, CoNiFe, FeTaN, FeAIN, CoTaN, CoAIN, or CoFeN and has a thickness between about 0.2 and 2 microns.

8.(original) The write head described in claim 4 wherein said upper magnetic pole is NiFe, CoNiFe, FeTaN, FeAIN, CoTaN, CoAIN, or CoFeN and has a thickness between about 0.3 and 3 microns.

9.(original) The write head described in claim 4 wherein said width is between about 0.05 and 1 microns.

10.(original) The write head described in claim 4 wherein said amount that said ledge extends away from said primary lower pole is between about 0.1 and 1 microns.

11 - 36 (canceled).